UNIFICATION OF A PROGRAMMING LANGUAGE AND A DEFINITION LANGUAGE

ABSTRACT

Unification of a programming language with a definition language creates a powerful tool for object-oriented programming. A programming language is extended to include definition language constructs. In a compiler environment, a compiler recognizes the definition language constructs in programming language code. The compiler environment unifies representation of the definition language information and programming language code in a unified parse tree, and derives semantic meaning from definition language information. The compiler environment also checks for lexical, syntax, and semantic errors.